



# GEL UNIVERSAL LD

LONG LASTING UNIVERSAL ANTI-FREEZE AMERIZE



COOLANT RANGE  
MINERAL TECHNOLOGY  
TYPE C

MINERAL

ORGANIC



## APPLICATIONS

Sealed or non-sealed cooling circuits for automobiles.

**GEL UNIVERSAL LD** meets the requirements of French standard R15-601 Type I, a reference used by many automobile and industrial vehicles manufacturers.

## BENEFITS

- Mineral product with no borax, and with no CMR (carcinogenic, mutagenic, reprotoxic) raw materials.
- Strong alkalinity reserves ensuring maximum lifetime.
- Contains special inhibitors for maximum protection of aluminum alloys.
- Maximum protection against freezing.
- Excellent thermal conductivity ensuring maximum motor cooling.
- Good compatibility with hoses, elastomers and plastics.

## USE

Drain the entire cooling system. Comply with manufacturers' recommended draining frequencies.

Because this coolant is concentrated, dilute it with de-mineralised water according to the dilution table below:

| % volume of GEL UNIVERSAL LD | Temperature protection range |
|------------------------------|------------------------------|
| 33                           | -18°C                        |
| 40                           | -25°C                        |
| 45                           | - 31°C                       |
| 50                           | - 38°C                       |

To maintain the coolant's anti-corrosive properties, do not dilute below 33%.

## PERFORMANCES

**GEL UNIVERSAL LD** meets the following specifications :

ASTM D3306 and 4985 / SAE J1034 / BS 6580 / AFNOR R 15601 except pH



## TECHNICAL DATA SHEET

### PERFORMANCE LEVELS

BMW N 600 69.0  
CHRYSLER MS 9176  
FORD ESD-M97B49-A  
FORD WSS-M97B44-C  
GM US 6277 M  
MAN 324  
MERCEDES DBL 7700  
PORSCHE/VW/AUDI/SEAT/SKODA TL 774C (G11)  
VOLVO (Reg. N°260)

Glassware corrosion test (NF R 15-602-7 method) Weight loss in mg/test tube

| METAL    | Brass | Copper | Welding | Steel | FONTE Fe | Aluminum   |
|----------|-------|--------|---------|-------|----------|------------|
| STANDARD | ± 5   | ± 5    | ± 5     | ± 2.5 | ± 4      | -10 to +20 |
| GEL LD   | -0.8  | -0.8   | -2.2    | -0.1  | -0.2     | -0.6       |

Hot plate corrosion in mg/cm<sup>2</sup>/week (NF R 15-602-8 method)

|          |          |
|----------|----------|
| STANDARD | -1 to +1 |
| GEL LD   | -0.6     |

## CHARACTERISTICS

| CHARACTERISTICS              | UNITS             | METHODS       | AVERAGE VALUES |
|------------------------------|-------------------|---------------|----------------|
| Colour                       | -                 | Visual        | Blue           |
| Density at 20°C              | kg/m <sup>3</sup> | NF T 60-172   | 1120           |
| Ash content                  | %                 | NF R 15-602-3 | 1.25           |
| Flash Point                  | °C                | NF M 07-019   | 125            |
| Boiling point                | °C                | NF R 15-602-4 | 163            |
| Alkalinity reserve           | ml                | NF T 78-101   | 15             |
| Foaming tendency at 33% vol. |                   |               |                |
| Volume of foam               | ml                | NF R 15-602-5 | 100            |
| Refractive Index             | -                 | NFR 15-602.2  | 1.435          |

*The average specifications provided are approximate values*

## HEALTH, SAFETY AND ENVIRONMENT

**GEL UNIVERSAL LD** contains no nitrites or amines but, like all anti-freeze containing ethylene glycol, it is subject to regulatory labeling for hazardous substances (harmful if swallowed).

Use gloves, glasses and do not drink, eat or smoke while handling.

KEEP OUT OF REACH OF CHILDREN. DO NOT SWALLOW. KEEP AWAY FROM FOOD AND BEVERAGE, INCLUDING THOSE FOR ANIMALS. DO NOT DISCHARGE INTO DRAINS OR INTO SURFACE WATER. KEEP IN ITS ORIGINAL PACKAGE. DO NOT STORE IN METALLIC PACKAGING

Disposal should be in accordance with current regulations.

Use-by date: manufacturing date +60 months

Keep away from bad weather conditions.

Our technical department is available to provide advice if needed.